Hayes

1644
#9

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION *US/09/109,082*

DATE: 12/16/1999
TIME: 00:00:07

INPUT SET: S34235.raw

> **This Raw Listing contains the General**
> **Information Section and up to the first 5 pages.**

```
 1                                    SEQUENCE LISTING
 2
 3    (1)    General Information:
 4
 5          (i) APPLICANT: MELKI, JUDITH
 6                        MUNNICH, ARNOLD
 7
 8         (ii) TITLE OF INVENTION: SURVIVAL MOTOR NEURON (SMN) GENE: A GENE
 9                   FOR SPINAL MUSCULAR ATROPHY
10
11        (iii) NUMBER OF SEQUENCES: 65
12
13        (iv) CORRESPONDENCE ADDRESS:
14              (A) ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH, LLP
15              (B) STREET: PO BOX 747
16              (C) CITY: FALLS CHURCH
17              (D) STATE: VA
18              (E) COUNTRY: USA
19              (F) ZIP: 22040-0747
20
21         (v) COMPUTER READABLE FORM:
22              (A) MEDIUM TYPE: Floppy disk
23              (B) COMPUTER: IBM PC compatible
24              (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25              (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
26
27        (vi) CURRENT APPLICATION DATA:
28              (A) APPLICATION NUMBER: 09/109,082
29              (B) FILING DATE:
30              (C) CLASSIFICATION:
31
32       (vii) PRIOR APPLICATION DATA:
33              (A) APPLICATION NUMBER: 08/545,196
34              (B) FILING DATE: 19-OCT-1995
35
36      (viii) ATTORNEY/AGENT INFORMATION:
37              (A) NAME: FARACI, C. J.
38              (B) REGISTRATION NUMBER: 32,350
39              (C) REFERENCE/DOCKET NUMBER: 2121-110P
40
41        (ix) TELECOMMUNICATION INFORMATION:
42              (A) TELEPHONE: (703) 205-8000
43              (B) TELEFAX: (703) 205-8050
44
45
46    (2) INFORMATION FOR SEQ ID NO:1:
```

ENTERED

RECEIVED MAR 10 2000 TC 1600 MAIL ROOM

INPUT SET: S34235.raw

```
47
48          (i) SEQUENCE CHARACTERISTICS:
49              (A) LENGTH: 347 base pairs
50              (B) TYPE: nucleic acid
51              (C) STRANDEDNESS: double
52              (D) TOPOLOGY: linear
53
54         (ii) MOLECULE TYPE: DNA (genomic)
55
56
57
58
59         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
60
61    AATTTTTAAA TTTTTTGTAG AGACAGGGTC TCATTATGTT GCCCAGGGTG GTGTCAAGCT      60
62
63    CCAGGTCTCA AGTGATCCCC CTACCTCCGC CTCCCAAAGT TGTGGGATTG TAGGCATGAG     120
64
65    CCACTGCAAG AAAACCTTAA CTGCAGCCTA ATAATTGTTT TCTTTGGGAT AACTTTTAAA     180
66
67    GTACATTAAA AGACTATCAA CTTAATTTCT GATCATATTT TGTTGAATAA AATAAGTAAA     240
68
69    ATGTCTTGTG AACAAAATGC TTTTTAACAT CCATATAAAG CTATCTATAT ATAGCTATCT     300
70
71    ATGTCTATAT AGCTATTTTT TTTAACTTCC TTTTATTTTC CTTACAG                  347
72
73    (2) INFORMATION FOR SEQ ID NO:2:
74
75          (i) SEQUENCE CHARACTERISTICS:
76              (A) LENGTH: 444 base pairs
77              (B) TYPE: nucleic acid
78              (C) STRANDEDNESS: double
79              (D) TOPOLOGY: linear
80
81         (ii) MOLECULE TYPE: DNA (genomic)
82
83
84
85
86         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
87
88    GTAAGTCTGC CAGCATTATG AAAGTGAATC TTACTTTTGT AAAACTTTAT GGTTTGTGGA      60
89
90    AAACAAATGT TTTTGAACAG TTAAAAAGTT CAGATGTTAA AAAGTTGAAA GGTTAATGTA     120
91
92    AAACAATCAA TATTAAAGAA TTTTGATGCC AAAACTATTA GATAAAAGGT TAATCTACAT     180
93
94    CCCTACTAGA ATTCTCATAC TTAACTGGTT GGTTATGTGG AAGAAACATA CTTTCACAAT     240
95
96    AAAGAGCTTT AGGATATGAT GCCATTTTAT ATCACTAGTA GGCAGACCAG CAGACTTTTT     300
97
98    TTTATTGTGA TATGGGATAA CCTAGGCATA CTGCACTGTA CACTCTGACA TATGAAGTGC     360
99
```

INPUT SET: S34235.raw

```
100   TCTAGTCAAG TTTAACTGGT GTCCACAGAG GACATGGTTT AACTGGAATT CGTCAAGCCT      420
101
102   CTGGTTCTAA TTTCTCATTT GCAG                                            444
103
104   (2) INFORMATION FOR SEQ ID NO:3:
105
106        (i) SEQUENCE CHARACTERISTICS:
107             (A) LENGTH: 347 base pairs
108             (B) TYPE: nucleic acid
109             (C) STRANDEDNESS: double
110             (D) TOPOLOGY: linear
111
112       (ii) MOLECULE TYPE: DNA (genomic)
113
114
115
116
117       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
118
119   AATTTTTAAA TTTTTTGTAG AGACAGGGTC TCATTATGTT GCCCAGGGTG GTGTCAAGCT       60
120
121   CCAGGTCTCA AGTGATCCCC CTACCTCCGC CTCCCAAAGT TGTGGGATTG TAGGCATGAG      120
122
123   CCACTGCAAG AAAACCTTAA CTGCAGCCTA ATAATTGTTT TCTTTGGGAT AACTTTTAAA      180
124
125   GTACATTAAA AGACTATCAA CTTAATTTCT GATCATATTT TGTTGAATAA AATAAGTAAA      240
126
127   ATGTCTTGTG AACAAAATGC TTTTTAACAT CCATATAAAG CTATCTATAT ATAGCTATCT      300
128
129   ATATCTATAT AGCTATTTTT TTTAACTTCC TTTTATTTTC CTTACAG                  347
130
131   (2) INFORMATION FOR SEQ ID NO:4:
132
133        (i) SEQUENCE CHARACTERISTICS:
134             (A) LENGTH: 444 base pairs
135             (B) TYPE: nucleic acid
136             (C) STRANDEDNESS: double
137             (D) TOPOLOGY: linear
138
139       (ii) MOLECULE TYPE: DNA (genomic)
140
141
142
143
144       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
145
146   GTAAGTCTGC CAGCATTATG AAAGTGAATC TTACTTTTGT AAAACTTTAT GGTTTGTGGA       60
147
148   AAACAAATGT TTTTGAACAG TTAAAAAGTT CAGATGTTAG AAAGTTGAAA GGTTAATGTA      120
149
150   AAACAATCAA TATTAAAGAA TTTTGATGCC AAAACTATTA GATAAAAGGT TAATCTACAT      180
151
152   CCCTACTAGA ATTCTCATAC TTAACTGGTT GGTTGTGTGG AAGAAACATA CTTTCACAAT      240
```

```
153
154    AAAGAGCTTT AGGATATGAT GCCATTTTAT ATCACTAGTA GGCAGACCAG CAGACTTTTT      300
155
156    TTTATTGTGA TATGGGATAA CCTAGGCATA CTGCACTGTA CACTCTGACA TATGAAGTGC      360
157
158    TCTAGTCAAG TTTAACTGGT GTCCACAGAG GACATGGTTT AACTGGAATT CGTCAAGCCT      420
159
160    CTGGTTCTAA TTTCTCATTT GCAG                                              444
161
162    (2) INFORMATION FOR SEQ ID NO:5:
163
164        (i) SEQUENCE CHARACTERISTICS:
165            (A) LENGTH: 25 base pairs
166            (B) TYPE: nucleic acid
167            (C) STRANDEDNESS: single
168            (D) TOPOLOGY: linear
169
170        (ii) MOLECULE TYPE: other nucleic acid
171            (A) DESCRIPTION: /desc = "SYNTHETIC DNA"
172
173
174
175
176        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
177
178    AGACTATCAA CTTAATTTCT GATCA                                             25
179
180    (2) INFORMATION FOR SEQ ID NO:6:
181
182        (i) SEQUENCE CHARACTERISTICS:
183            (A) LENGTH: 24 base pairs
184            (B) TYPE: nucleic acid
185            (C) STRANDEDNESS: single
186            (D) TOPOLOGY: linear
187
188        (ii) MOLECULE TYPE: other nucleic acid
189            (A) DESCRIPTION: /desc = "SYNTHETIC DNA"
190
191
192
193
194        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
195
196    TAAGGAATGT GAGCACCTTC CTTC                                              24
197
198    (2) INFORMATION FOR SEQ ID NO:7:
199
200        (i) SEQUENCE CHARACTERISTICS:
201            (A) LENGTH: 23 base pairs
202            (B) TYPE: nucleic acid
203            (C) STRANDEDNESS: single
204            (D) TOPOLOGY: linear
205
```

INPUT SET: S34235.raw

```
206          (ii) MOLECULE TYPE: other nucleic acid
207                (A) DESCRIPTION: /desc = "SYNTHETIC DNA"
208
209
210
211
212          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
213
214   GTAATAACCA AATGCAATGT GAA                                          23
215
216   (2) INFORMATION FOR SEQ ID NO:8:
217
218          (i) SEQUENCE CHARACTERISTICS:
219                (A) LENGTH: 20 base pairs
220                (B) TYPE: nucleic acid
221                (C) STRANDEDNESS: single
222                (D) TOPOLOGY: linear
223
224          (ii) MOLECULE TYPE: other nucleic acid
225                (A) DESCRIPTION: /desc = "SYNTHETIC DNA"
226
227
228
229
230          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
231
232   CTACAACACC CTTCTCACAG                                             20
233
234   (2) INFORMATION FOR SEQ ID NO:9:
235
236          (i) SEQUENCE CHARACTERISTICS:
237                (A) LENGTH: 294 amino acids
238                (B) TYPE: amino acid
239                (C) STRANDEDNESS: single
240                (D) TOPOLOGY: linear
241
242          (ii) MOLECULE TYPE: protein
243
244
245
246
247          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
248
249          Met Ala Met Ser Ser Gly Gly Ser Gly Gly Gly Val Pro Glu Gln Glu
250          1               5                   10                  15
251
252          Asp Ser Val Leu Phe Arg Arg Gly Thr Gly Gln Ser Asp Asp Ser Asp
253                      20                  25                  30
254
255          Ile Trp Asp Asp Thr Ala Leu Ile Lys Ala Tyr Asp Lys Ala Val Ala
256              35                  40                  45
257
258          Ser Phe Lys His Ala Leu Lys Asn Gly Asp Ile Cys Glu Thr Ser Gly
```

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/109,082*

INPUT SET: S34235.raw

Line	Error	Original Text

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION *US/09/109,082*

DATE: 12/16/1999
TIME: 00:00:09

INPUT SET: S34235.raw

< < THERE ARE NO ITEMS MISSING > >

SEQUENCE CORRECTION REPORT
PATENT APPLICATION *US/09/109,082*

Line	Original Text	Corrected Text